

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P136364

Luminaire Tested: **LD6A10D010TE ERW6A10927 6LW111H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23375)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10927 6LW111H  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE  
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 986.8 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.17 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

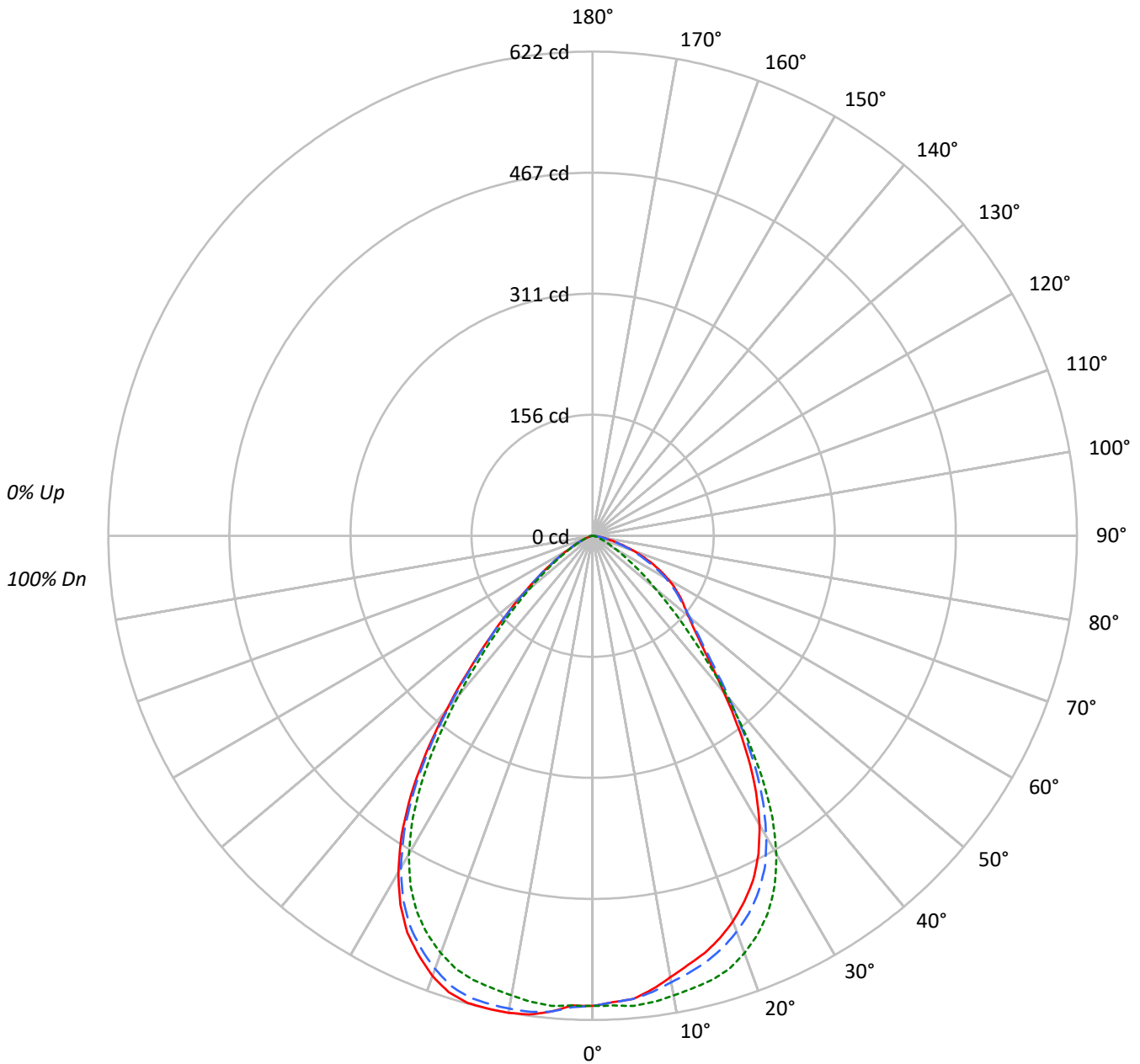
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

### Luminous Intensity Polar Plot





TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	39405	39405	39405
5°	39124	39700	40191
10°	38145	39722	41226
15°	37499	39911	41964
20°	36595	39602	41775
25°	35136	38411	40513
30°	32288	35550	37584
35°	27756	30257	32407
40°	22305	22765	24885
45°	18176	15777	17475
50°	16260	10545	11977
55°	15628	6893	7882
60°	14679	4371	4945
65°	13044	2686	2840
70°	10529	1640	1640
75°	7360	1084	1084
80°	4847	827	827
85°	2395	823	823



TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	5.8
10°-20°	165.8	16.8
20°-30°	241.4	24.5
30°-40°	234.2	23.7
40°-50°	148.0	15.0
50°-60°	82.4	8.4
60°-70°	40.8	4.1
70°-80°	14.4	1.5
80°-90°	2.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	464.7	47.1
0°-40°	698.9	70.8
0°-60°	929.4	94.2
0°-90°	986.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	597	597	606	614	614	56
15°	555	566	591	614	621	156
25°	488	504	534	554	563	223
35°	348	365	380	400	407	216
45°	197	202	171	187	189	156
55°	137	134	61	69	69	122
65°	84	78	17	18	18	83
75°	29	27	4	4	4	33
85°	3	3	1	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	599.6	594.2	596.3	595.3	596.3	595.3	598.5	595.3	597.4	599.6	595.3
5°	597.4	592.0	593.1	593.1	593.1	593.1	596.3	593.1	595.3	597.4	594.2
7.5°	587.7	583.4	584.5	584.5	584.5	584.5	587.7	585.6	587.7	590.9	587.7
10°	575.8	571.5	573.7	573.7	573.7	573.7	578.0	575.8	578.0	582.3	579.1
12.5°	564.9	561.7	563.9	563.9	563.9	564.9	568.2	567.1	569.3	574.8	571.5
15°	555.2	552.0	554.2	554.2	554.2	555.2	558.5	559.6	561.7	566.0	563.9
17.5°	542.3	539.0	542.3	542.3	541.2	543.4	547.7	547.7	549.8	555.2	554.2
20°	527.1	523.8	527.1	527.1	526.0	528.2	532.5	533.6	535.7	541.2	540.1
22.5°	508.7	507.7	508.7	510.9	509.8	510.9	515.2	516.3	518.5	524.9	523.8
25°	488.1	487.1	489.2	490.3	489.2	490.3	494.6	495.7	497.8	504.3	504.3
27.5°	461.1	460.0	463.2	463.2	463.2	465.4	468.6	470.8	471.9	479.5	478.4
30°	428.6	427.5	429.7	430.8	430.8	430.8	435.1	438.3	439.4	446.0	446.0
32.5°	390.7	390.7	391.8	394.0	392.9	395.0	398.3	400.4	402.6	408.1	408.1
35°	348.5	349.6	350.7	352.9	351.8	352.9	356.1	358.3	359.3	364.7	363.7
37.5°	304.1	305.2	306.3	307.3	307.3	308.4	311.8	312.8	313.9	318.2	316.1
40°	261.9	261.9	263.0	265.2	264.1	266.2	268.4	269.5	269.5	272.7	270.6
42.5°	225.1	226.2	227.3	228.4	228.4	229.5	231.6	232.7	232.7	233.8	230.5
45°	197.0	198.1	198.1	200.2	200.2	201.3	202.4	203.5	202.4	202.4	199.1
47.5°	176.4	177.5	178.6	179.7	179.7	180.8	181.9	181.9	180.8	179.7	175.3
50°	160.2	162.4	162.4	163.4	164.5	165.6	165.6	165.6	163.4	162.4	155.9
52.5°	148.3	149.4	150.5	151.6	151.6	152.6	153.7	152.6	150.5	147.2	140.7
55°	137.4	138.5	139.6	140.7	140.7	140.7	140.7	139.6	137.4	134.2	127.7
57.5°	125.6	126.6	127.7	128.8	128.8	128.8	128.8	127.7	125.6	121.3	113.6
60°	112.5	113.6	114.8	115.9	115.9	115.9	114.8	113.6	111.4	108.2	100.6
62.5°	98.5	99.6	100.6	100.6	100.6	99.6	99.6	98.5	96.3	93.1	85.5
65°	84.5	84.5	85.5	85.5	85.5	85.5	84.5	83.4	81.2	77.9	72.5
67.5°	69.3	70.3	70.3	70.3	70.3	70.3	69.3	69.3	67.1	63.9	59.5
70°	55.2	55.2	56.3	56.3	56.3	56.3	55.2	55.2	53.1	50.9	46.5
72.5°	41.1	41.1	41.1	42.2	42.2	42.2	41.1	41.1	40.0	37.9	34.6
75°	29.2	29.2	29.2	30.3	30.3	30.3	30.3	29.2	28.2	27.1	24.9
77.5°	19.5	20.6	19.5	19.5	19.5	20.6	19.5	19.5	19.5	18.4	16.2
80°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.9	11.9	10.8
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.5	6.5
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	598.5	600.7	602.9	600.7	597.4	604.0	602.9	604.0	602.9	600.7	607.2
5°	597.4	599.6	602.9	600.7	598.5	605.1	604.0	606.2	606.2	604.0	610.5
7.5°	590.9	593.1	598.5	596.3	594.2	600.7	601.7	604.0	605.1	602.9	610.5
10°	583.4	585.6	590.9	589.9	588.8	596.3	597.4	599.6	600.7	599.6	607.2
12.5°	575.8	579.1	584.5	583.4	583.4	590.9	592.0	595.3	597.4	596.3	605.1
15°	568.2	572.6	579.1	578.0	578.0	586.6	587.7	590.9	593.1	593.1	601.7
17.5°	558.5	562.8	569.3	568.2	570.4	576.9	579.1	583.4	585.6	584.5	594.2
20°	544.4	549.8	556.3	555.2	556.3	564.9	567.1	570.4	572.6	572.6	581.2
22.5°	528.2	533.6	540.1	539.0	541.2	547.7	549.8	554.2	556.3	555.2	563.9
25°	508.7	514.1	519.5	519.5	520.6	528.2	530.3	533.6	536.8	535.7	543.4
27.5°	482.7	488.1	493.5	492.5	493.5	501.1	503.2	506.6	509.8	508.7	516.3
30°	449.2	454.6	458.9	457.8	458.9	466.5	467.5	471.9	475.2	475.2	481.7
32.5°	410.2	415.6	417.8	415.6	417.8	423.2	425.4	429.7	431.8	432.9	439.4
35°	365.8	369.0	370.1	368.0	368.0	373.4	375.6	379.9	382.1	383.2	388.6
37.5°	317.2	319.3	317.2	313.9	315.0	317.2	320.4	323.6	326.9	327.9	333.3
40°	269.5	268.4	265.2	259.8	258.7	261.9	264.1	267.3	269.5	271.6	274.9
42.5°	227.3	225.1	218.7	212.1	211.0	211.0	212.1	215.4	217.6	218.7	223.0
45°	193.7	189.4	179.7	172.1	167.7	168.8	168.8	171.0	172.1	174.2	177.5
47.5°	167.7	160.2	148.3	138.5	134.2	133.1	133.1	134.2	135.3	137.4	139.6
50°	147.2	137.4	123.4	112.5	107.1	105.0	105.0	103.9	106.0	107.1	109.3
52.5°	131.0	119.1	102.8	90.9	84.5	82.3	81.2	81.2	81.2	82.3	84.5
55°	115.9	102.8	85.5	73.6	66.0	63.9	61.7	60.6	61.7	62.8	63.9
57.5°	102.8	88.8	71.4	58.5	52.0	48.7	46.5	45.4	45.4	46.5	47.6
60°	89.9	75.7	58.5	46.5	40.0	36.8	34.6	33.5	33.5	34.6	34.6
62.5°	75.7	62.8	47.6	36.8	30.3	27.1	24.9	24.9	23.8	23.8	24.9
65°	63.9	52.0	38.9	29.2	22.8	20.6	18.4	17.4	17.4	16.2	17.4
67.5°	52.0	42.2	31.4	22.8	17.4	15.1	12.9	12.9	11.9	11.9	11.9
70°	41.1	33.5	24.9	17.4	14.0	10.8	9.7	8.6	8.6	8.6	8.6
72.5°	30.3	24.9	18.4	12.9	9.7	8.6	7.6	6.5	5.4	5.4	5.4
75°	21.7	17.4	12.9	9.7	7.6	6.5	5.4	4.3	4.3	4.3	4.3
77.5°	15.1	11.9	9.7	6.5	5.4	4.3	3.2	3.2	3.2	3.2	2.2
80°	9.7	7.6	6.5	4.3	3.2	3.2	2.2	2.2	2.2	2.2	2.2
82.5°	5.4	4.3	3.2	3.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
85°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	600.7	605.1	605.1	607.2	604.0	606.2	609.4	608.3	605.1	606.2	607.2
5°	605.1	609.4	610.5	613.7	610.5	613.7	618.0	616.9	613.7	615.9	616.9
7.5°	605.1	610.5	612.6	615.9	613.7	616.9	622.3	621.3	618.0	620.2	622.3
10°	602.9	608.3	611.5	614.8	612.6	616.9	621.3	621.3	619.1	621.3	624.5
12.5°	600.7	606.2	609.4	612.6	610.5	615.9	621.3	620.2	619.1	621.3	624.5
15°	597.4	602.9	606.2	609.4	608.3	613.7	619.1	619.1	616.9	620.2	623.4
17.5°	589.9	595.3	599.6	601.7	600.7	606.2	611.5	611.5	609.4	612.6	615.9
20°	576.9	582.3	586.6	588.8	587.7	592.0	597.4	598.5	596.3	599.6	602.9
22.5°	560.6	564.9	569.3	571.5	570.4	574.8	580.2	581.2	579.1	582.3	584.5
25°	541.2	544.4	548.8	550.9	549.8	554.2	559.6	559.6	558.5	560.6	562.8
27.5°	514.1	518.5	521.7	523.8	523.8	527.1	531.4	532.5	531.4	533.6	536.8
30°	480.6	482.7	487.1	488.1	489.2	492.5	496.8	496.8	495.7	497.8	501.1
32.5°	438.3	441.6	444.9	446.0	447.0	450.3	453.5	454.6	453.5	455.7	458.9
35°	388.6	391.8	395.0	396.1	397.2	400.4	403.7	404.8	403.7	405.8	409.2
37.5°	333.3	335.5	338.7	339.8	342.0	344.2	346.4	348.5	347.5	349.6	351.8
40°	277.1	278.2	281.4	282.5	284.7	286.8	289.0	290.1	290.1	291.2	292.2
42.5°	224.1	226.2	228.4	229.5	231.6	232.7	234.8	235.9	235.9	237.0	238.1
45°	178.6	180.8	183.0	184.0	186.2	187.3	188.3	189.4	188.3	188.3	190.5
47.5°	140.7	142.8	145.0	146.1	147.2	148.3	149.4	149.4	149.4	150.5	150.5
50°	110.4	111.4	113.6	113.6	115.9	115.9	116.9	116.9	116.9	116.9	118.0
52.5°	85.5	86.6	88.8	88.8	89.9	90.9	90.9	90.9	90.9	92.0	90.9
55°	64.9	66.0	67.1	67.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3
57.5°	48.7	49.8	50.9	50.9	50.9	52.0	50.9	52.0	52.0	52.0	52.0
60°	35.7	36.8	36.8	36.8	37.9	37.9	37.9	37.9	37.9	37.9	37.9
62.5°	24.9	24.9	26.0	26.0	26.0	27.1	26.0	26.0	27.1	27.1	26.0
65°	17.4	17.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
67.5°	11.9	11.9	11.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
70°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
72.5°	5.4	5.4	5.4	5.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	2.2	2.2	3.2	3.2	3.2	2.2	2.2	2.2	3.2	3.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P136364

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW111H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	604.0	604.0	604.0	604.0
2.5°	607.2	606.2	607.2	604.0
5°	616.9	615.9	618.0	613.7
7.5°	623.4	622.3	624.5	620.2
10°	624.5	624.5	626.7	622.3
12.5°	624.5	624.5	626.7	622.3
15°	624.5	623.4	625.6	621.3
17.5°	616.9	616.9	619.1	614.8
20°	602.9	602.9	605.1	601.7
22.5°	585.6	585.6	586.6	583.4
25°	563.9	562.8	564.9	562.8
27.5°	536.8	535.7	536.8	534.6
30°	500.0	498.9	501.1	498.9
32.5°	458.9	456.7	458.9	456.7
35°	408.1	405.8	408.1	406.9
37.5°	351.8	349.6	351.8	350.7
40°	292.2	291.2	293.3	292.2
42.5°	238.1	235.9	238.1	237.0
45°	190.5	188.3	190.5	189.4
47.5°	150.5	149.4	151.6	150.5
50°	118.0	116.9	118.0	118.0
52.5°	90.9	89.9	90.9	90.9
55°	69.3	68.2	69.3	69.3
57.5°	52.0	50.9	52.0	52.0
60°	37.9	37.9	37.9	37.9
62.5°	27.1	26.0	27.1	27.1
65°	18.4	18.4	18.4	18.4
67.5°	12.9	12.9	12.9	12.9
70°	8.6	8.6	8.6	8.6
72.5°	6.5	6.5	6.5	5.4
75°	4.3	4.3	4.3	4.3
77.5°	3.2	2.2	3.2	3.2
80°	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)